

# 2020 Kansas Harmful Algal Bloom Meeting

January 22 - 23, 2020

Washburn University Memorial Union



# Day 1 Morning: Plenary Sessions, Washburn A/B Room

Time 8:00 - 9:00	Registration Main Level of the Memorial Union
9:00 - 9:10	Welcome - Tom Stiles, <i>KDHE BOW</i>
9:10 - 9:55	2019 Season Summary and Updates from KDHE
	2019 KS Statistics - Megan Maksimowicz, KDHE BOW Watershed Planning
	PWS Statistics and 2019 Events - Rob Gavin, <i>KDHE BOW Public Water Supply</i>
	2019 HAB Health Statistics - Jaime Gabel, KDHE Bureau of Epidemiology and Public Health Informatics
9:55 - 10:15	The Kansas Nutrient Landscape, 1950 - 2020 - Peter Tomlinson, <i>Kansas State University</i>
10:15 - 10:35	Monitoring of Cheney Reservoir, Wichita's Primary Drinking Water Source, 1966 - 2019 - Mandy Stone, <i>U.S. Geological Survey</i>
10:35 - 10:50	Break
10:50 - 12:00	Panel: Regional Research Updates Moderator: Britini Jacobs, KDHE BOW Watershed Planning
	EPA Region 7 Research Progress and Plans - Laura Webb, <i>EPA Region 7</i>
	USACE Research Updates - Marvin Boyer, USACE Kansas City District
	Phytoplankton Community Response to Reduced Light: Can We Control Cyanobacteria with Glacial Rock Flour?  - Jacob Gaskill, <i>University of Missouri</i>
	Can We Better Understand the Drivers of CyanoHABs? - Jaejin Lee, <i>Iowa State Univesity</i>
12:10 - 1:20	Lunch
12:45	EPA Policy Updates and Initiatives - Steve Schaff, <i>EPA Region 7</i>

Thank you for attending our meeting. It's with your continued support that we can keep our Harmful Algal Bloom Response program going.

- Kansas Department of Health and Environment Harmful Algal Bloom Team, Bureau of Water

And thank you to our partner agencies and collaborators:

Kansas Biological Survey
Kansas Department of Wildlife, Parks and Tourism
Kansas State University
Kansas Water Office
University of Kansas
Wichita State University
US Army Corps of Engineers
US Environmental Protection Agency
US Geological Survey

### Keynote Speaker



Wayne Carmichael is a retired (2007) Professor of Biological Sciences and Professor Emeritus at Wright State University, Dayton, Ohio. An Oregon native, he received his B.Sc. in Botany/Zoology from Oregon State University in 1969. He earned an M.Sc. in 1972 and a Ph.D. in 1974 from the University of Alberta, Edmonton in the areas of limnology, aquatic microbiology and pharmacology. His professional career was spent on primary research of cyanobacteria freshwater harmful algae blooms (HABs). Projects as a Professor Emeritus focus on management and mitigation of harmful cyanobacteria in municipal and recreational water supplies. This includes serving on national and international HAB committees, organization of and participation in workshops and symposia plus advising on HAB issues for local, state, national and international agencies and groups. He is a board member of the Oregon Lakes Association, Clatsop County Soil and Water Conservation District and the Elsie-Vinemaple Rural Fire and Rescue District. He makes his home in the coast range, on the beautiful Nehalem River.

Please see the insert in your folder for all speaker biographies.

### Day 1 Afternoon: PWS Track, Kansas Room

#### Time

1:20 - 4:25 Welcome

- Cathy Tucker-Vogel, KDHE BOW Public Water Supply

Lessons Learned: Summary of 2019 Voluntary Monitoring Program

- Rob Gavin, KDHE BOW Public Water Supply

Treatment Options for HABs Impacted Waters

- Nick Dugan, EPA Office of Research and Development

#### **Break**

Public Water Supply HAB Response - Tabletop Exercise - KDHE BOW PWS Leadership and All Participants

# Day 1 Afternoon: Watershed and Lake Managers Track, Washburn A Room

Time	
1:20 - 1:35	Welcome and Reflections on Kansas Watershed Issues - Erich Glave, Director, KDHE Bureau of Environmental Field Services
1:35 - 2:20	Overview of HAB Mitigation Methods - Wayne Carmichael, Emeritus, Wright State University
2:20 - 2:40	Treatment Wetlands for Watershed Nutrient Control - Amy Hansen, <i>University of Kansas</i>
2:40 - 3:00	Break
3:00 - 3:20	Streambank Erosion and Flooding in 2019 - Tony Stahl, <i>KDHE BOW Watershed Planning</i>
3:20 - 3:40	Marion Reservoir—What we know, what we need to learn - Jin-Ho Yun and Ted Harris, <i>University of Kansas</i>
3:40 - 4:00	Urban Lake Prevention and Control Measures - Ian Fannin-Hughes, City of Overland Park
4:00 - 4:30	Results of Treatment on Milford Gathering Pond - Ciera Baird, <i>Aquatic Control, Inc.</i>

Join us for hors d'ouvres at the evening reception. Washburn B Room, 4:30 - 6

# Day 2 Morning: Plenary Sessions, Washburn A/B Room

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Time	
7:30 - 8:00	Registration Main Level of the Memorial Union
8:00 - 8:10	Welcome - BOW Staff
8:10 - 9:00	Fate of Cyanotoxins in the Environment - Wayne Carmichael, Emeritus, Wright State University
9:00 - 10:10	Panel: Reservoir Perspectives Moderator: Britini Jacobs
	USACE Reservoir Management - Tony Clyde, USACE Tulsa District
	KDHE Lakes Monitoring - Layne Knight, <i>KDHE BOW Watershed Planning</i>
	USGS HAB Monitoring - Ariel Donovan, U.S. Geological Survey
	KDWPT Reservoir Management - Alan Stark, Regional Park Supervisor, Kansas Department of Wildlife, Parks and Tourism
10:10 - 10:25	Break
10:25 - 10:45	Analysis of Cyanotoxins: Data Gaps, Challenges, and Advancements - Zachary Laughrey, U.S. Geological Survey
10:45 - 11:20	Update on Human Health Effects Associated with Cyanobacteria and their Toxins (Remote Presentation) - Elizabeth Hilborn, <i>EPA</i>
11:20 - 11:40	Animal Health Updates for Kansas - Steve Ensley, K-State Veterinary Diagnostic Lab
11:40 - 12:00	2020 Response Plan Updates and Future Directions - Elizabeth Smith, <i>KDHE BOW Watershed Planning</i>
12:00	Closing - Tom Stiles, Director, KDHE BOW

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